

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (canceled)

2. (currently amended) A method for controlling a storage system including a plurality of host computers, a first storage control device having a first storage device, a second storage control device having a second storage device coupled to said first storage control device, and a computer coupled to said plurality of host computers, said first storage control device, and said second storage control device,

wherein said first storage control device is provided with a file system for receiving a data input/output request using file identifier assignment to be sent from at least one of said plurality of host computers and for executing data input/output processing to said first storage device in response to said request thus received,

wherein a first file storage region accessible for each of said host computers is kept on a storage region of said first storage device provided in said first storage control device,

wherein said computer executes the control method comprising:

storing a first correspondence established between a first identifier (ID) to be assigned for each of said host computers and a file identifier (ID) being added to a file to be stored in said first file storage region;

receiving said data input/output request sent from said host computer, a correspondence being established in said received request between a first ID of a host computer for use as a sending source of said received request and a file ID of a target file of said received request;

comparing said first ID and said file ID of said first correspondence to said first ID and said file ID of said correspondence included in said received request, respectively, a correspondence included in said received request and established between said first ID of a host

23 ~~computer being specified as a sending source of the request and an ID of a target file of the~~
24 ~~request to thereby determine whether said received request is accepted or not by checking for a~~
25 ~~match between the respective IDs; and~~

26 sending said received request ~~toward~~ to said first storage control device
27 upon determination of ~~accept~~ acceptance of said received request as a result of a match between
28 the respective IDs;

29 wherein said second storage control device with another file system is such that a
30 second file storage region for use as a copy source of the file to be stored in said first file storage
31 region is kept on a storage region of said second storage device equipped by itself, and

32 wherein, ~~in terms of file replication~~ replicating files from said second file storage
33 region to said first file storage region, said computer executes the control method further
34 comprising:

35 storing a second correspondence of a status parameter having a first state
36 indicative of a state before replication and a second state indicating a state after replication and a
37 second ID assigned to said second storage control device plus said first ID of a host computer
38 accessible to said second storage control device;

39 comparing said first ID which is included in said received request and
40 which is of the host computer that is a sending source of the request to said first ID being stored
41 to said second correspondence;

42 acquiring said status parameter as corresponding to the first ID matched
43 through said comparison in said second correspondence;

44 sending said received request ~~toward~~ to said second storage control device
45 when a content of said acquired status parameter is said first state; and

46 sending said received request to said first storage control device when the
47 content of said acquired status parameter is said second state.

1 3. (previously presented) A method according to claim 2, wherein said
2 second storage control device stores a third correspondence established between said first ID of a

3 host computer accessible to itself and a file ID being assigned to a file to be stored in said second
4 file storage region accessible by said host computer, and

5 wherein when communicably connecting said second storage control device to
6 said computer and said first storage control device, said computer executes the control method
7 further comprising:

8 receiving from an input interface said second ID of said second storage
9 control device and said first ID of the host computer accessible to said second storage control
10 device;

11 storing to said second correspondence said received second ID and first ID
12 along with said status parameter as set in a state;

13 receiving from said second storage control device said file ID
14 corresponding to said first ID coinciding with said received first ID in said third correspondence,
15 stores said received first ID and file ID in said first correspondence; and

16 storing as said first state the content of said status parameter as stored in
17 said second correspondence.

1 4. (previously presented) A method according to claim 3, wherein when
2 communicably connecting said second storage control device to said computer and said first
3 storage control device, said computer executes the control method further comprising:

4 receiving from an input interface said second ID of said second storage
5 control device and said first ID of a host computer accessible to said second storage control
6 device;

7 providing for a storage device equipped by said first storage control device
8 said first file storage region used for execution of file management by use of a file ID
9 corresponding to said received second ID and first ID;

10 replicating more than one file to be stored in said second file storage
11 region of said second storage control device with said received second ID added thereto in said
12 first file storage region thus reserved in a way corresponding to said file ID; and

5. (previously presented) A method according to claim 4, wherein when communicably connecting said second storage control device to said computer and said first storage control device, said computer executes the control method further comprising:

receiving from an input interface said second ID of said second storage control device and said first ID of a host computer accessible to said second storage control device;

acquiring said file ID which is stored in said first correspondence and corresponds to the first ID that coincides with said received first ID;

duplicating in said second file storage region more than one file to be stored in said first file storage region subjected to execution of file management using said acquired file ID; and

6. (previously presented) A method according to claim 5, wherein when making said second storage control device unable to communicate with respect to said computer and said first storage control device, said computer executes the control method further comprising:

receiving from an input interface said second ID of said second storage control device and said first ID of a host computer accessible to said second storage control device;

deleting in said second correspondence a first ID and a second ID which coincide with said received first ID and second ID together with status parameters corresponding to said first and second IDs; and

11 deleting in said first correspondence the first ID coinciding with said
12 received first ID and said file ID corresponding to the first ID.

1 7. (previously presented) A method according to claim 6, wherein said file
2 ID is a file name and/or a directory.

8. (canceled)

9. (canceled)

1 10. (currently amended) A computer for use with a storage system including a
2 plurality of host computers, a first storage control device having a first storage device, a second
3 storage control device having a second storage device coupled to said first storage control
4 device, and [[a]] said computer coupled to said plurality of host computers, said first storage
5 control device, and said second storage control device,

6 wherein said first storage control device is provided with a file system for
7 receiving a data input/output request using file identifier assignment to be sent from at least one
8 of said plurality of host computers and for executing data input/output processing to said first
9 storage device in response to said data input/output request,

10 wherein in said storage system, a first file storage region accessible for each of
11 said host computers is reserved on a storage region of said first storage device equipped by said
12 first storage control device,

13 wherein said computer comprises:

14 means for storing a first correspondence established between a first ID
15 assigned for each of said host computers and a file ID assigned to a file to be stored in said first
16 file storage region;

17 means for receiving said data input/output request sent from a host
18 computer, a correspondence being established in said received request between a first ID of a
19 host computer for use as a sending source of said received request and a file ID of a target file of
20 said received request;

21 means for comparing [[to]] said first ID and said file ID of said first
22 correspondence to said first ID and said file ID of said correspondence included in said received

23 ~~request, respectively, a correspondence between said first ID which is included in said received~~
24 ~~request and which is of a host computer for use as a sending source of said request and an ID of a~~
25 ~~target file of this request to thereby determine whether said received request is accepted or not by~~
26 ~~checking for a match between the respective IDs; and~~

27 means for sending said received request ~~toward to~~ said storage control
28 device when determining ~~accept acceptance~~ of said received request ~~as a result of a match~~
29 ~~between the respective IDs;~~

30 wherein said second storage control device with said file system is such that a
31 second file storage region for use as a copy source of the file to be stored in said first file storage
32 region is kept on a second storage region of said second storage device equipped by itself, and

33 wherein, ~~in terms of file replication replicating files~~ from said second file storage
34 region to said first file storage region, said computer is configured to:

35 store a second correspondence of a status parameter having a first state
36 indicative of a state before replication and a second state indicating a state after replication and a
37 second ID added to said second storage control device plus said first ID of a host computer
38 accessible to said second storage control device;

39 compare said first ID which is included in said received request and which
40 is of the host computer that is a sending source of the request to said first ID being stored to said
41 second correspondence;

42 acquire said status parameter as corresponding to the first ID matched
43 through said comparison in said second correspondence;

44 send said received request ~~toward to~~ said second storage control device
45 when a content of said acquired status parameter is said first state; and

46 send said received request to said first storage control device when the
47 content of said acquired status parameter is said second state.

1 11. (previously presented) A computer according to claim 10, wherein said
2 second storage control device stores a third correspondence established between said first ID of a

3 host computer accessible to itself and a file ID being assigned to a file to be stored in said second
4 file storage region accessible by said host computer, and

5 wherein when communicably connecting said second storage control device to
6 said computer and said first storage control device, said computer is configured to:

7 receive from an input interface said second ID of said second storage
8 control device and said first ID of the host computer accessible to said second storage control
9 device;

10 store to said second correspondence said received second ID and first ID
11 along with said status parameter as set in a state;

12 receive from said second storage control device said file ID corresponding
13 to said first ID coinciding with said received first ID in said third correspondence, store said
14 received first ID and file ID in said first correspondence; and

15 store as said first state a content of said status parameter as stored in said
16 second correspondence.

1 12. (previously presented) A computer according to claim 11, wherein when
2 communicably connecting said second storage control device to said computer and said first
3 storage control device, said computer is configured to:

4 receive from an input interface said second ID of said second storage
5 control device and said first ID of a host computer accessible to said second storage control
6 device;

7 provide for a storage device equipped by said first storage control device
8 said first file storage region used for execution of file management by use of a file ID
9 corresponding to said received second ID and first ID;

10 replicate more than one file to be stored in said second file storage region
11 of said second storage control device with said received second ID assigned thereto in said first
12 file storage region thus reserved in a way corresponding to said file ID; and

13 store as said second state a content of said status parameter being stored to
14 said second correspondence.

1 13. (previously presented) A computer according to claim 12, wherein when
2 communicably connecting said second storage control device to said computer and said first
3 storage control device, said computer is configured to:

4 receive from an input interface said second ID of said second storage
5 control device and said first ID of a host computer accessible to said second storage control
6 device;

7 acquire said file ID which is stored in said first correspondence and
8 corresponds to the first ID that coincides with said received first ID;

9 duplicate in said second file storage region more than one file to be stored
10 in said first file storage region subjected to execution of file management using said acquired file
11 ID; and

12 store as said first state a content of said status parameter as stored in said
13 second correspondence.

1 14. (previously presented) A computer according to claim 13, wherein when
2 making said second storage control device unable to communicate with respect to said computer
3 and said first storage control device, said computer is configured to:

4 receive from an input interface said second ID of said second storage
5 control device and said first ID of a host computer accessible to said second storage control
6 device;

7 delete in said second correspondence a first ID and a second ID which
8 coincide with said received first ID and second ID together with status parameters corresponding
9 to said first and second IDs; and

10 delete in said first correspondence the first ID coinciding with said
11 received first ID and said file ID corresponding to the first ID.

1 15. (previously presented) A computer according to claim 14, wherein said
2 file ID is a file name and/or a directory.

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16.-23. (canceled)